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ABSTRACT

This booklet contains the teacher's guide to a mathematics placement test which was developed to assist teachers in providing the best match between instructional materials and student needs. It covers math skills from whole numbers to algebra. The placement test is divided into six parts, each consisting of 10 to 22 problems, and is based on exit skills that students need to master in order to move on to the next level of work. Correlations to the Texas Association for Bilingual Education (TABE) and the General Educational Development (GED) are included. (KHR)

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Math Sense

TEACHER'S GUIDE

Placement Test

Including Correlations to TABE and the GED

Cathy Fillmore Hoyt

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To the Teacher

Math Sense is a series that consists of five books that developmentally explore math skills from whole numbers to algebra. Using the *Math Sense Placement Test* will enable you to customize the series for individuals or for small groups of students.

The placement test is divided into six parts, each consisting of 10 to 22 problems.

The test is based on "exit skills," that is, the skills that students need to master in order to move on to the next level of work. While you may be using other assessment instruments with your students, the *Math Sense Placement Test* and this corresponding *Teacher's Guide* have been developed to assist you in providing the best match between instructional materials and student needs.

Administering the Placement Test

- First, read To the Student in *Math Sense Placement Test* and familiarize yourself with the test booklet.
- Assign the placement test to students as needed. The booklet, including the Study Planner on the back, is designed as an individualized assessment and evaluation tool. Students may do their work on scrap paper, but their answers and scores should be recorded in the booklet.
- Because of the length and the scope of the test, students will need two or more sittings to complete it. Note that this is not a timed test—give students the time that they need to show what they know. In that way, you will be able to place them appropriately.
- Encourage students to work as many of the problems as they can. If a particular part of the test seems beyond their skill level, they should move on to the next part of the test. Let students know that if the next part is also beyond their level, they should tell you, and you will end the testing.

Using the Answers to Place the Student

- When a student has completed the test, you or the student may use the Answer Key on pages 4–5 of this guide to check answers.
- As you work through the student's test booklet, fill in the chart at the end of each two-page part of the test. Use this information to fill in the student's study planner at the end of the test booklet. Page 6 of this guide models how to use the study planner for placement purposes.
- The mastery level for each book is based on approximately 85% correct on the corresponding part of the *Placement Test*. For a more in-depth analysis of a student's strengths and weaknesses, you may use the Placement Test Item Analysis charts on pages 7–8 of this book or administer the Skill Preview at the beginning of the student book in which the student has been placed.
- If a student has 85% or higher mastery level on all of the parts of the test, but still wants to review math skills, you may place the student in *Comprehensive Review*.

Math Sense Placement Test Answer Key

After checking a student's answers, refer to the Item Analysis charts on pages 7–8 to help identify a student's strengths and help target potential areas of study.

Part 1: Whole Numbers and Money, pp. 4–5

1. 681
2. $67.44
3. $148.32
4. 9,672
5. $473
6. 153 R14 or 153.4
7. **$22** $4 + $11 + $7 = $22
8. **91** 127 + 146 = 273 rugs
   273 ÷ 3 = 91 rugs per store
9. **$24.95** $164.90 − $139.95 = $24.95
10. **(4)** (160 + 64) ÷ 14
11. **$1,987** $3,562 − $1,575 = $1,987
    Ignore the cost of the car.
12. **12** 168 ÷ 13 = 12 R12
    Ignore the remainder.
13. **124** Add: 154 + 131 + 87 = 372
    Divide: 372 ÷ 3 = 124 rooms per day
14. **$1,911** Add: $38 + $7.50 = $45.50
    Multiply: $45.50 × 42 = $1,911

Part 2: Decimals, Fractions, Ratios, and Percents pp. 6–7

1. 17.265
2. 3.85
3. 62.5
4. 42
5. x = **33**
   22 × 12 ÷ 8 = 33
6. $1\frac{7}{15}$
7. $4\frac{5}{8}$
8. $\frac{3}{5}$
9. 18
10. **204**
    340 × 0.6 = 204
11. **$24\frac{3}{4}$ yards** $2\frac{5}{8} + 2\frac{5}{8} = 5\frac{1}{4}$
    $30 - 4\frac{1}{5} = 24\frac{3}{4}$ yards
12. **$5.88** $23.50 ÷ 4 = $5.875, which rounds to $5.88.
13. **14.7 hours** 36.5 − 21.8 = 14.7 hours
14. **(4) 9:14** Find the total: 25 + 45 = 70.
    Write the ratio and simplify: $\frac{45}{70} = \frac{9}{14}$
15. **$78.40** $112 × 0.3 = $33.60
    $112 − $33.60 = $78.40
16. **36 part-time employees**
    $\frac{5}{2} = \frac{90}{x}$; $5x = 180$; x = 36 part-time employees
17. **$125** $\frac{1}{5}$ = 20% and 25% − 20% = 5%
    Find 5% of $2,500: $2,500 × 0.05 = $125
18. **440 miles** $\frac{\frac{1}{2}\text{ inch}}{80\text{ miles}} = \frac{2\frac{1}{4}\text{ inches}}{x\text{ miles}}$
    $\frac{1}{2}x = 80 \times 2\frac{1}{4}$; $\frac{1}{2}x = 220$;
    x = 440 miles

Part 3: Measurement, pp. 8–9

1. 5 quarts
2. 30 inches
3. 3.2 meters
4. 6 pounds 1 ounce
5. 4.2 kilograms
6. 1 cup 5 fluid ounces
7. **62 miles per hour**
   248 ÷ 4 = 62
8. **12:25 P.M.** 30 + 15 + 20 = 65 min. =
   1 hr. 5 min. Count back 1 hr. 5 min. from 1:30 P.M.
9. **$2\frac{1}{4}$ pounds** The scale reads $3\frac{3}{4}$ pounds.
   $3\frac{3}{4} - 1\frac{1}{2} = 2\frac{1}{4}$ pounds
10. **180 cubic inches** Multiply: 9 × 5 × 4 = 180
11. **(3) 9 × 5** Area = length × width
12. **100.8°** 102.6° − 1.8° = 100.8°
13. **30 fluid ounces** 1 c. = 8 fl. oz. and 1 qt. = 4 c. =
    32 fl. oz. and 8 fl. oz. + 32 fl. oz. = 40 fl. oz.
    There are 40 fl. oz. of vegetable stock. 70 fl. oz. −
    40 fl. oz. = 30 fl. oz.
14. **21.6 kilograms** 3,600 g ÷ 1,000 = 3.6 kg and
    3.6 kg × 6 = 21.6 kg

Part 4: Data Analysis, pp. 10–11

1. November
2. **$29.20**
   ($24 + $31 + $28 + $42 + $21) ÷ 5 = $29.20
3. 8,000
4. **3:2 or $\frac{3}{2}$**
   $\frac{15{,}000\text{ online sales}}{10{,}000\text{ in-store sales}} \div \frac{5{,}000}{5{,}000} = \frac{3}{2}$

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5. February and March

6. **(5) The closing price per share of stock ABC will be less than $70.** The trend of the price of stock ABC shows an overall decline. The stock's value will most likely continue to decline.

7. **58%** 100% − 42% = 58%

8. **$528** Add: 13% + 9% = 22%

   Multiply: $2,400 × 0.22 = $528

9. **25%** 2 out of 8 sections are red.

   $\frac{2}{8} = \frac{1}{4} = 25\%$

10. $\frac{1}{10}$ The probability of spinning white is $\frac{4}{8} = \frac{1}{2}$. The probability of spinning 4 is $\frac{1}{5}$. Multiply: $\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$

Part 5: Algebra, pp. 12–13

1. 64
2. 9
3. −2
4. 9
5. 36
6. −5
7. 15
8. −10
9. 35
10. 41
11. 12
12. −3
13. 9
14. 5
15. 6

16. **9** $x^2 + 4y + 7z = (-2)^2 + 4(3) + 7(-1)$
    $= 4 + 12 - 7 = 9$

17. **B** −3.5 is halfway between −3 and −4.

18. **15 inches and 12 inches**
    $2(x + 9) + 2(2x) = 54$
    $2x + 18 + 4x = 54$
    $6x + 18 = 54$
    $6x = 36$
    $x = 6$
    length: $x + 9 = 6 + 9 = 15$
    width: $2x = 2(6) = 12$

19. **(4)** $7 + 2n \leq -1$

20. **14 and 32**
    first number = x; second number = $3x - 10$
    $x + 3x - 10 = 46$
    $4x = 56$
    $x = 14$
    $3(14) - 10 = 42 - 10 = 32$

21. **70 MPH** At 10:30 A.M., Ally will have been driving for $2\frac{1}{2}$ hours. $56 \times 2\frac{1}{2} = 140$ miles. Claude has to drive the same distance in two hours: $d = rt$, $140 = r \cdot 2$, so $r = \frac{140}{2} = 70$ MPH.

22. **23 years old**

	age now	age 5 years ago
Paul	x	$x - 5$
Stuart	$37 - x$	$37 - x - 5$ or $32 - x$

This is one way to write the equation:
$x - 5 = 2(32 - x)$
$x - 5 = 64 - 2x$
$3x = 69$
$x = 23$

Part 6: Geometry, pp. 14–15

1. 18°
2. 129°
3. 102°
4. 27°

5. **37.68 centimeters** $C = \pi d$; the diameter is twice the radius: 3.14 × 12 = 37.68 cm.

6. **120 cubic feet** 6 × 4 × 5 = 120 cu. ft.

7. (−3, 5)

8. **2** The line rises 6 units and runs 3 units.
   $\frac{6}{3} = \frac{2}{1} = 2$

9. **40 feet** $\frac{\text{12 ft. height}}{\text{7.5 ft. shadow}} = \frac{x \text{ ft. height}}{\text{25 ft. shadow}}$
   $12(25) = 7.5x$
   $300 = 7.5x$
   $\frac{300}{7.5} = x$
   40 ft. $= x$

10. **$533** The total area = $15^2 + 12^2 = 225 + 144$ = 369 sq. ft.
    Divide by 9: 369 sq. ft. ÷ 9 = 41 sq. yd.
    Multiply: 41 × $13 = $533.

11. **201.5 sq. cm** Area of rectangle: $l \times w$ = 20 × 14 = 280 sq. cm. Area of circle: πr^2 = $3.14(5^2) = 3.14(25) = 78.5$ sq. cm.
    Subtract: 280 − 78.5 = 201.5 sq. cm.

12. **10 miles** The camper hiked due north and then due east. The straight path back forms a right triangle.
    $a^2 + b^2 = c^2$, and $6^2 + 8^2 = 36 + 64 = 100$
    Find the square root: $\sqrt{100} = 10$ miles

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Using the *Math Sense* Study Planner

FILL IN THIS CHART AFTER CHECKING ANSWERS.

Part 1: Whole Numbers and Money

4 correct out of 6 skill questions (1–6)

6 correct out of 8 problem-solving questions (7–14)

Total correct: 10 out of 14 problems

As you check answers, fill in the chart at the end of each part with the number of correct skill questions and the number of correct problem-solving questions. Then, add to find the total number of correct answers.

Math Sense Study Planner

After your answers are checked, you and your instructor will use the information from the chart at the end of each part of the test to fill out this Study Planner. Your instructor will determine whether your level on each part of the test is *Mastery* or *Study Needed* and then assign your book from the list below.

Part	Skills Correct/Total	Problem Solving Correct/Total	Total Correct/Total	Level
1	_____/6	_____/8	_____/14	❑ Mastery ❑ Study Needed
2	_____/10	_____/8	_____/18	❑ Mastery ❑ Study Needed
3	_____/6	_____/8	_____/14	❑ Mastery ❑ Study Needed
4	_____/5	_____/5	_____/10	❑ Mastery ❑ Study Needed
5	_____/15	_____/7	_____/22	❑ Mastery ❑ Study Needed
6	_____/8	_____/4	_____/12	❑ Mastery ❑ Study Needed
TOTAL	_____/50	_____/40	_____/90	

Based on the results of the *Math Sense* Placement Test, begin working in the following book:

❑ *Whole Numbers and Money*
❑ *Decimals, Fractions, Ratios, and Percents*
❑ *Measurement and Data Analysis*
❑ *Algebra and Geometry*
❑ *Comprehensive Review*

Student Name _____ Teacher Name _____ Date _____

If the student has attained the score below, you may check off *Mastery* for that part. If the student has fewer correct answers for a part, check off *Study Needed*.

Mastery Scores

Part 1: 12 or more/14

Part 2: 15 or more/18

Part 3: 12 or more/14

Part 4: 8 or more/10

Part 5: 19 or more/22

Part 6: 10 or more/12

Using the results above, assign books as follows based on the first indication of *Study Needed*.

Part 1: *Whole Numbers and Money*

Part 2: *Decimals, Fractions, Ratios, and Percents*

Parts 3 and 4: *Measurement and Data Analysis*

Parts 5 and 6: *Algebra and Geometry*

If a student has 85% or higher mastery level on all of the parts but still wants to review math skills, you may place the student in *Comprehensive Review*.

Math Sense
Placement Test Item Analysis

Question	Type of Question
	Part 1: Whole Numbers and Money
1	S: Subtract whole numbers
2	S: Add money amounts
3	S: Multiply money
4	S: Multiply by 2-digit number
5	S: Divide money
6	S: Divide by 2-digit number
7	PS: Estimation
8	PS: Multistep problem: Addition and division
9	PS: Find the difference
10	PS: Choose the correct set-up solution
11	PS: Ignore extra information
12	PS: Decide how to use a remainder
13	PS: Find an average
14	PS: Multistep problem: Addition and multiplication
	Part 2: Decimals, Fractions, Ratios, and Percents
1	S: Add decimals
2	S: Subtract decimals
3	S: Multiply whole numbers and decimals
4	S: Divide decimals
5	S: Solve proportions
6	S: Add fractions
7	S: Subtract mixed numbers
8	S: Multiply fractions

Question	Type of Question
9	S: Divide mixed numbers by fractions
10	S: Find percent of a number
11	PS: Multistep problem: Addition and subtraction with mixed numbers
12	PS: Divide decimals; round quotient as directed
13	PS: Subtract decimals; find facts in table
14	PS: Write ratios in lowest terms
15	PS: Find discounted price
16	PS: Write and solve a proportion
17	PS: Change fractions and percents
18	PS: Proportions: scale drawings
	Part 3: Measurement
1	S: Convert English units of capacity
2	S: Convert English units of length
3	S: Convert metric units of length
4	S: Add English units of weight
5	S: Multiply metric units of weight
6	S: Subtract English units of capacity
7	PS: Apply the distance formula
8	PS: Work backwards to create a schedule
9	PS: Read a scale and apply information
10	PS: Find volume of a container
11	PS: Area: choose the correct setup solution
12	PS: Temperature
13	PS: Multistep problem: capacity
14	PS: Ignore extra information

S: Skill-based question
PS: Problem-solving question

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Question	Type of Question
	Part 4: Data Analysis
1	S: Find information in a table
2	PS: Find the mean
3	S: Read a bar graph
4	PS: Use lengths of bars to find a ratio
5	S: Read a line graph
6	PS: Use data to predict trends
7	S: Read a circle graph
8	PS: Solve percent problem using data
9	S: Find simple probability
10	PS: Find probability of successive events
	Part 5: Algebra
1	S: Evaluate exponents
2	S: Find square roots
3	S: Add signed numbers
4	S: Subtract signed numbers
5	S: Multiply signed numbers
6	S: Divide signed numbers
7	S: Order of operations
8	S: Order of operations with parentheses
9	S: Order of operations with powers and roots
10	S: Solve addition equation
11	S: Solve multiplication equation
12	S: Multistep equation

Question	Type of Question
13	S: Multistep equation with variables on both sides
14	S: Equation with parentheses
15	S: Proportion equation
16	PS: Use substitution to evaluate an expression
17	PS: Use a number line
18	PS: Write an equation based on a figure
19	PS: Inequality: Choose the correct set-up solution
20	PS: Number relationship problem
21	PS: Motion problem
22	PS: Age problem
	Part 6: Geometry
1	S: Find complementary angle measures
2	S: Find supplementary angle measures
3	S: Find the measure of vertical angles
4	S: Find the missing angle in a triangle
5	S: Find the circumference of a circle
6	S: Find the volume of a rectangular container
7	S: Plot points on a coordinate grid
8	S: Find the slope of a line
9	PS: Similar triangle problem
10	PS: Surface area and cost problem
11	PS: Complex area problem
12	PS: Pythagorean theorem

S: Skill-based question
PS: Problem-solving question

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Math Sense • TABE Correlation
Levels M (3.6–6.9), D (6.6–8.9), and A (8.6–12.9)
Test 2: Mathematics Computation

TABE Objective	TABE 7			TABE 8			*Math Sense* Books
	Level M	Level D	Level A	Level M	Level D	Level A	
Add Whole Numbers	3, 8, 13, 4	NA	NA	2, 4, 8, 1	NA	NA	*Whole Numbers and Money* (46–55, 60–61) *Comprehensive Review* (16–17)
Subtract Whole Numbers	2, 10, 12, 5	NA	NA	3, 13, 10, 14	NA	NA	*Whole Numbers and Money* (76–85, 88–93) *Comprehensive Review* (18–19)
Multiply Whole Numbers	1, 11, 18, 7, 14	5, 3, 6, 7	NA	6, 12, 5, 23, 15	1, 3, 8, 10	NA	*Whole Numbers and Money* (108–121, 126–127) *Comprehensive Review* (20–21)
Divide Whole Numbers	6, 9, 16, 17	1, 4, 9, 8	NA	9, 7, 11, 16	2, 4, 7, 9	NA	*Whole Numbers and Money* (144–153, 158–159) *Comprehensive Review* (22–25)
Decimals	25, 19, 22, 24	2, 12, 13, 17, 11	1, 2, 10, 15	24, 25, 17, 21	6, 12, 5, 22, 24	2, 1, 8, 6, 7	*Decimals, Fractions, Ratios, and Percents* (50–57, 70–79) *Comprehensive Review* (40–53, 58–61)
Fractions	15, 23, 20, 21	10, 14, 15, 23	5, 3, 6, 4, 9	18, 20, 19, 22	18, 19, 16, 13	14, 5, 16, 23, 12	*Decimals, Fractions, Ratios, and Percents* (88–103, 108–125) *Comprehensive Review* (76–95)
Integers	NA	22, 18, 25, 20	17, 8, 25, 14, 7, 11	NA	20, 21, 25, 11	9, 19, 17, 4, 13	*Algebra and Geometry* (22–27) *Comprehensive Review* (180–181)
Percents	NA	16, 19, 21, 24	12, 16, 19, 22, 23	NA	14, 15, 17, 23	15, 20, 21, 22, 24	*Decimals, Fractions, Ratios, and Percents* (160–175, 184–189) *Comprehensive Review* (108–117)
Algebraic Operations	NA	NA	13, 18, 20, 21, 24	NA	NA	3, 10, 11, 18, 25	*Algebra and Geometry* (56–71) *Comprehensive Review* (178–189)
Numeration	23, 18, 6, 19, 16, 29	31, 1, 6, 8, 13, 3	8, 2, 48, 22, 50	4, 24, 40, 25, 48	1, 5, 17, 19, 32, 45	8, 35, 1, 2, 10, 25	*Whole Numbers and Money* (16–21) *Decimals,Fractions, Ratios, and Percents* (30–33) *Algebra and Geometry* (22–23, 42–43, 46–47) *Comprehensive Review* (180–181, 188–189)

Math Sense • TABE Correlation
Levels M (3.6–6.9), D (6.6–8.9), and A (8.6–12.9)
Test 3: Applied Mathematics

TABE Objective	TABE 7			TABE 8			*Math Sense* Books
	Level M	Level D	Level A	Level M	Level D	Level A	
Number Theory	2, 9, 8, 3, 33, 43	14, 15, 25, 34, 43	28, 43, 44, 1, 9, 35	1, 12, 28, 13, 8, 20, 31	30, 26, 27, 9, 14, 44	20, 41, 46, 13, 14, 21	*Whole Numbers and Money* (118–119) *Decimals, Fractions, Ratios, and Percents* (136–149, 160–179, 184–189) *Algebra and Geometry* (82–87) *Comprehensive Review* (98–117)
Data Interpretation	14, 20, 22, 28, 30, 31, 34, 36, 38	10, 11, 36, 47, 48, 49, 35, 50	11, 12, 17, 18, 19, 49, 27, 36, 40, 42	5, 6, 7, 10, 11, 15, 22, 23	7, 37, 38, 39, 10, 8	44, 45, 11, 12, 17, 19, 23, 24	*Measurement and Data Analysis* (90–97, 106–111, 118–129, 132–143, 166–171) *Comprehensive Review* (148–165)
Pre-Algebra and Algebra	4, 35, 1, 7, 13, 12	4, 5, 37, 2, 7, 9	7, 10, 20, 38, 4, 24	2, 3, 42, 50, 9	3, 20, 4, 6, 13, 42	9, 34, 26, 28, 3, 18, 22	*Whole Numbers and Money* (76–77, 80–81, 110–111, 144–145) *Algebra and Geometry* (28–33, 38–39, 56–71) *Comprehensive Review* (190–201, 220–221)
Measurement	5, 39, 47, 26, 45, 25	24, 27, 29, 18, 28	3, 5, 26, 25, 21, 34	18, 47, 43, 21, 17, 19, 41, 36	2, 47, 31, 23, 22, 29	27, 4, 42, 50, 15, 40	*Whole Numbers and Money* (38–41) *Measurement and Data Analysis* (14–29, 34–47, 52–61, 66–79) *Comprehensive Review* (128–145)
Geometry	50, 11, 44, 49, 37, 48	17, 45, 40, 19, 39, 44	23, 16, 13, 31, 15, 32	32, 34, 49, 35, 33, 37	50, 21, 18, 34, 16	43, 33, 47, 48	*Algebra and Geometry* (94–99, 108–115, 122–135, 154–163) *Comprehensive Review* (206–219, 222–223, 226–232)
Computation in Context	15, 40, 41, 21, 24, 32	26, 30, 38, 33, 23, 32, 41	33, 14, 30, 41, 47	30, 29, 38, 45, 27	24, 11, 25, 33, 46, 28, 41, 43	43, 33, 47, 48	*Whole Numbers and Money* (62–63, 82–83, 90–91, 122–123, 134–135, 160–161, 166–167) *Decimals, Fractions, Ratios, and Percents* (28–29, 44–45, 52–53, 62–63, 82–83, 92–93, 104–105) *Comprehensive Review* (28–29, 52–53)
Estimation	27, 42, 17, 46, 10	20, 12, 16, 21, 22, 42, 46	37, 39, 6, 29, 45, 46	39, 14, 16, 44, 26, 46	48, 12, 35, 36, 15, 40, 49	6, 16, 49, 5, 7, 37	*Whole Numbers and Money* (22–23, 68–69) *Decimals, Fractions, Ratios, and Percents* (50–51, 76–77, 88–89, 162–163) *Comprehensive Review* (26–27)

New Readers Press • *Math Sense* Series
GED 2002 Mathematics Test Correlation
Whole Numbers and Money

GED 2002 Mathematics Test	Student Book (ISBN 1-56420-383-2)	Teacher Guide (ISBN 1-56420-384-0)
Number Sense and Operation Sense	pp. 14–21, 32–33, 46–49, 52–55, 60–61, 66–67, 78–81, 84–85, 88–89, 92–95, 108–109, 112–121, 126–127, 130–131, 146–153, 158–159, 162–163, 170–171	pp. 4–9, 11–17, 19–24, 26–33, 35–41
Graphic/Visual Skills	pp. 40–41	p. 9
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